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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/945,027	08/31/2001	Venkateswar R. Kowkutla	TI-31681	1605	
23494	7590 10/06/2006		EXAMINER		
	STRUMENTS INCORPO	NGUYEN, LINH V			
	P O BOX 655474, M/S 3999 DALLAS, TX 75265		ART UNIT	PAPER NUMBER	
Drieerio, 1	75205		2819		
·			DATE MAILED: 10/06/200	DATE MAILED: 10/06/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
		09/945,027	KOWKUTLA ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Linh V. Nguyen	2819			
Period fo	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
WHIC - Exter after - If NO - Failu Any (ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timurill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133)			
Status						
2a)⊠	Responsive to communication(s) filed on <u>07 Au</u> This action is FINAL . 2b) This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Dispositi	on of Claims					
5) □ 6) ⊠ 7) □ 8) □ Applicati 9) □ 10) ⊠	Claim(s) 1-4 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1-4 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or on Papers The specification is objected to by the Examiner The drawing(s) filed on 31 August 2001 is/are: Applicant may not request that any objection to the or Replacement drawing sheet(s) including the correction The oath or declaration is objected to by the Examiner The oath of the	r election requirement. r. a)⊠ accepted or b)□ objected to the discount of t	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority u	ınder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
2)	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:				

Application/Control Number: 09/945,027 Page 2

Art Unit: 2819

DETAILED ACTION

1. This office action is in response to communication filed on 8/7/06. Claims 1 – 16, and 19 – 23 are pending on this application. Claims 5 – 16 and 19 – 23 have been canceled. Claim 1 has been amended. Claims 1 – 4 are remaining on this application.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1 4, rejected under 35 U.S.C. 102(b) as being anticipated by Yukawa U.S. patent No. 5,010,347.

Regarding to claim 1, Fig. 1 of Yukawa disclose a digital amplify system including a noise shaper (10) and a dither generator (32) arranged to introduce noise to the shaper (10), said generator (32) using a seed value (output signal of 20 feed into32) derived from a state variable (variable output of 20) of said shaper (10).

Regarding claim 2, Fig. 1 further discloses wherein the number of bits generated noise (20) exceeds (bit input of 32 is a portion of the bits output from 20; thereby the bits output of noise shaper is always exceeds the bit input of 32) that of the seed value (bit input of 32).

Art Unit: 2819

Regarding claim 3, wherein the dither generator (32) includes shift registers (fig. 2[40]) of predetermined bit lengths to receive said seed values (22), and provides a noise output (33).

Regarding claim 4, Fig. 1 further discloses means (34, 36, 38) for scaling said noise.

Response to Arguments

4. Applicant's arguments with respect to claim 1 have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Yukawa. Fig. 1 of Yukawa discloses a noise shaper (10) having a variable output (output of 22), and a dither generator (32) introduce noise to the shaper (10) according to the output of the shaper.

Conclusion

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any

Application/Control Number: 09/945,027

Art Unit: 2819

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

Page 4

the advisory action. In no event, however, will the statutory period for reply expire later

than SIX MONTHS from the date of this final action.

Contact Information

6. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Linh Van Nguyen whose telephone number is (571)

272-1810. The examiner can normally be reached from 8:30 – 5:00 Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Mr. Rexford Barnie can be reached at (571) 272-7492. The fax phone

numbers for the organization where this application or proceeding is assigned are

(571-273-8300) for regular communications and (571-273-8300) for After Final

communications.

LINH NGUYEN
PRIMARY EXAMINER

9/28//06

Linh Van Nguyen

Art Unit 2819